

***IN THE UNITED STATES PATENT AND TRADEMARK OFFICE***

Applicant: Joël RICHARD et al.

Title: METHODS FOR THE DISPERSION OF  
WATER-SOLUBLE OF HYDROPHILIC  
SUBSTANCES IN A SUPERCRITICALLY  
PRESSURIZED FLUID

Appl. No.: 10/554,281

Filing Date: 4/23/2004

Examiner: Unassigned

Art Unit: Unassigned

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

**RELEVANCE OF EACH DOCUMENT**

All of the documents are in English.


Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

Respectfully submitted,

Date 4/12/06

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By 

for Stephen B. Maebius *Matthew M. 1/1/06*  
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Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>		
				Application Number		10/554,281
				Filing Date		4/23/2004
				First Named Inventor		Joël RICHARD et al.
				Group Art Unit		Unassigned
				Examiner Name		Unassigned
Sheet	1	of	2	Attorney Docket Number		065691-0410

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	B1	CONSANI et al., "Observations on the Solubility of Surfactants and Related Molecules in Carbon Dioxide at 50°C," The Journal of Supercritical Fluids, 1990, vol. 3, pp. 51-65.	
	B2	DOROSZKOWSKI et al., "The Measurement of the Dependence of the Strength of Steric Barriers on Their Solvent Environment," Journal of Colloid and Interface Science," April 1973, vol. 43, no. 1, pp. 97-104.	
	B3	HELLER et al. : "'Steric Protection' of Hydrophobic Colloidal Particles by Adsorption of Flexible Macromolecules," Journal of Chemical Physics, 1954, vol. 22, p. 2778.	
	B4	HOEFLING et al., "Effect of Structure on the Cloud-Point Curves of Silicone-Based Amphiphiles in Supercritical Carbon Dioxide," The Journal of Supercritical Fluids, 1993, vol. 6, pp. 165-171.	
	B5	KIRBY et al., "Phase Behavior of Polymers in Supercritical Fluid Solvents," Chem. Rev. 1999, vol. 99, pp. 565-602.	
	B6	NAPPER, D.H., "Steric Stabilization," Journal of Colloid and Interface Science, February 1977, vol. 58, no. 2, pp. 390-407.	
	B7	NEWMAN et al., "Phase Behavior of Fluoroether-Functional Amphiphiles in Supercritical Carbon Dioxide," The Journal of Supercritical Fluids, 1993, vol. 6, pp. 205-210.	
	B8	OTTEWILL, R.H., "Stability and Instability in Disperse Systems," Journal of Colloid and Interface Science, February 1977, vol. 58, no. 2, pp. 357-373.	

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet	2	of	2
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	B9	OVERBEEK, J. Th. G., "Recent Developments in the Understanding of Colloid Stability," Journal of Colloid and Interface Science, February 1977, vol. 58, no. 2, pp. 408-422.	
	B10	SARBU et al., "Non-fluorous polymers with very high solubility in supercritical CO <sub>2</sub> down to low pressures," Nature, May 11, 2000. vol. 405, pp. 165-168.	
	B11	SATO, Tatsuo, "Stability of Dispersion," Journal of Coatings Technology, October 1993, vol. 65, no. 825, pp. 113-121.	

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